

ENDOGENOUS TNF PRODUCTION INDUCER AND METHOD FOR INDUCING
PRODUCTION OF ENDOGENOUS TNF

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Abstract

PURPOSE: To obtain a novel endogenous tumor necrotic factor (TNF) production inducer, containing a primer and trigger for producing the endogenous TNF, having at least either of the primer and trigger with TNF activity and capable of extending the range of cancer treating effects.

CONSTITUTION: The objective endogenous TNF production inducer obtained by collecting a genomic gene of an antitumor polypeptide from human acute monocytic leukemic cells in producing the endogenous TNF production inducer containing a primer and a trigger for producing the TNF, cleaving the genomic gene with a restriction enzyme, linking the resultant fragments to a suitable promoter and plasmid vector to prepare a plasmid, transforming a host cell using the plasmid vector, providing a protein having TNF activity and then blending the resultant protein as a primer with a *Streptococcus haemolyticus* formulation, etc., as a trigger.

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明 細 書

1. 発明の名称

内因性TNF産生誘導剤、及び内因性TNF産生誘導方法

2. 特許請求の範囲

(1) 内因性TNF産生のためのプライマーとトリガーとを含む内因性TNF産生誘導剤において、

プライマーとトリガーとのうちの少なくとも一方がTNF活性を有するものであることを特徴とする、内因性TNF産生誘導剤。

(2) プライマーとトリガーとのうちの少なくとも一方が徐放化処理されている、請求項1に記載の内因性TNF産生誘導剤。

(3) プライマー放出開始の3時間後にトリガー放出が開始するように徐放化処理されている、請求項2に記載の内因性TNF産生誘導剤。

(4) プライマーがTNF- α 、下記アミノ酸配列で表されるTNF_{ARI}、TNF_{ARI2}、TNF_{ARI3}、TNF_{ARI4}、TNF_{ARI5}、TNF_{ARI6}、TNF_{ARI7}、TNF_{ARI8}、TNF_{ARI9}、TNF_{ARI10}、TNF_{ARI11}、TNF_{ARI12}、TNF_{ARI13}、TNF_{ARI14}、TNF_{ARI15}、TNF_{ARI16}、TNF_{ARI17}、TNF_{ARI18}、TNF_{ARI19}、TNF_{ARI20}、TNF_{ARI21}、TNF_{ARI22}、TNF_{ARI23}、TNF_{ARI24}、TNF_{ARI25}、TNF_{ARI26}、TNF_{ARI27}、TNF_{ARI28}、TNF_{ARI29}、TNF_{ARI30}、TNF_{ARI31}、TNF_{ARI32}、TNF_{ARI33}、TNF_{ARI34}、TNF_{ARI35}、TNF_{ARI36}、TNF_{ARI37}、TNF_{ARI38}、TNF_{ARI39}、TNF_{ARI40}、TNF_{ARI41}、TNF_{ARI42}、TNF_{ARI43}、TNF_{ARI44}、TNF_{ARI45}、TNF_{ARI46}、TNF_{ARI47}、TNF_{ARI48}、TNF_{ARI49}、TNF_{ARI50}、TNF_{ARI51}、TNF_{ARI52}、TNF_{ARI53}、TNF_{ARI54}、TNF_{ARI55}、TNF_{ARI56}、TNF_{ARI57}、TNF_{ARI58}、TNF_{ARI59}、TNF_{ARI60}、TNF_{ARI61}、TNF_{ARI62}、TNF_{ARI63}、TNF_{ARI64}、TNF_{ARI65}、TNF_{ARI66}、TNF_{ARI67}、TNF_{ARI68}、TNF_{ARI69}、TNF_{ARI70}、TNF_{ARI71}、TNF_{ARI72}、TNF_{ARI73}、TNF_{ARI74}、TNF_{ARI75}、TNF_{ARI76}、TNF_{ARI77}、TNF_{ARI78}、TNF_{ARI79}、TNF_{ARI80}、TNF_{ARI81}、TNF_{ARI82}、TNF_{ARI83}、TNF_{ARI84}、TNF_{ARI85}、TNF_{ARI86}、TNF_{ARI87}、TNF_{ARI88}、TNF_{ARI89}、TNF_{ARI90}、TNF_{ARI91}、TNF_{ARI92}、TNF_{ARI93}、TNF_{ARI94}、TNF_{ARI95}、TNF_{ARI96}、TNF_{ARI97}、TNF_{ARI98}、TNF_{ARI99}、TNF_{ARI100}、TNF_{ARI101}、TNF_{ARI102}、TNF_{ARI103}、TNF_{ARI104}、TNF_{ARI105}、TNF_{ARI106}、TNF_{ARI107}、TNF_{ARI108}、TNF_{ARI109}、TNF_{ARI110}、TNF_{ARI111}、TNF_{ARI112}、TNF_{ARI113}、TNF_{ARI114}、TNF_{ARI115}、TNF_{ARI116}、TNF_{ARI117}、TNF_{ARI118}、TNF_{ARI119}、TNF_{ARI120}、TNF_{ARI121}、TNF_{ARI122}、TNF_{ARI123}、TNF_{ARI124}、TNF_{ARI125}、TNF_{ARI126}、TNF_{ARI127}、TNF_{ARI128}、TNF_{ARI129}、TNF_{ARI130}、TNF_{ARI131}、TNF_{ARI132}、TNF_{ARI133}、TNF_{ARI134}、TNF_{ARI135}、TNF_{ARI136}、TNF_{ARI137}、TNF_{ARI138}、TNF_{ARI139}、TNF_{ARI140}、TNF_{ARI141}、TNF_{ARI142}、TNF_{ARI143}、TNF_{ARI144}、TNF_{ARI145}、TNF_{ARI146}、TNF_{ARI147}、TNF_{ARI148}、TNF_{ARI149}、TNF_{ARI150}、TNF_{ARI151}、TNF_{ARI152}、TNF_{ARI153}、TNF_{ARI154}、TNF_{ARI155}、TNF_{ARI156}、TNF_{ARI157}、TNF_{ARI158}、TNF_{ARI159}、TNF_{ARI160}、TNF_{ARI161}、TNF_{ARI162}、TNF_{ARI163}、TNF_{ARI164}、TNF_{ARI165}、TNF_{ARI166}、TNF_{ARI167}、TNF_{ARI168}、TNF_{ARI169}、TNF_{ARI170}、TNF_{ARI171}、TNF_{ARI172}、TNF_{ARI173}、TNF_{ARI174}、TNF_{ARI175}、TNF_{ARI176}、TNF_{ARI177}、TNF_{ARI178}、TNF_{ARI179}、TNF_{ARI180}、TNF_{ARI181}、TNF_{ARI182}、TNF_{ARI183}、TNF_{ARI184}、TNF_{ARI185}、TNF_{ARI186}、TNF_{ARI187}、TNF_{ARI188}、TNF_{ARI189}、TNF_{ARI190}、TNF_{ARI191}、TNF_{ARI192}、TNF_{ARI193}、TNF_{ARI194}、TNF_{ARI195}、TNF_{ARI196}、TNF_{ARI197}、TNF_{ARI198}、TNF_{ARI199}、TNF_{ARI200}、TNF_{ARI201}、TNF_{ARI202}、TNF_{ARI203}、TNF_{ARI204}、TNF_{ARI205}、TNF_{ARI206}、TNF_{ARI207}、TNF_{ARI208}、TNF_{ARI209}、TNF_{ARI210}、TNF_{ARI211}、TNF_{ARI212}、TNF_{ARI213}、TNF_{ARI214}、TNF_{ARI215}、TNF_{ARI216}、TNF_{ARI217}、TNF_{ARI218}、TNF_{ARI219}、TNF_{ARI220}、TNF_{ARI221}、TNF_{ARI222}、TNF_{ARI223}、TNF_{ARI224}、TNF_{ARI225}、TNF_{ARI226}、TNF_{ARI227}、TNF_{ARI228}、TNF_{ARI229}、TNF_{ARI230}、TNF_{ARI231}、TNF_{ARI232}、TNF_{ARI233}、TNF_{ARI234}、TNF_{ARI235}、TNF_{ARI236}、TNF_{ARI237}、TNF_{ARI238}、TNF_{ARI239}、TNF_{ARI240}、TNF_{ARI241}、TNF_{ARI242}、TNF_{ARI243}、TNF_{ARI244}、TNF_{ARI245}、TNF_{ARI246}、TNF_{ARI247}、TNF_{ARI248}、TNF_{ARI249}、TNF_{ARI250}、TNF_{ARI251}、TNF_{ARI252}、TNF_{ARI253}、TNF_{ARI254}、TNF_{ARI255}、TNF_{ARI256}、TNF_{ARI257}、TNF_{ARI258}、TNF_{ARI259}、TNF_{ARI260}、TNF_{ARI261}、TNF_{ARI262}、TNF_{ARI263}、TNF_{ARI264}、TNF_{ARI265}、TNF_{ARI266}、TNF_{ARI267}、TNF_{ARI268}、TNF_{ARI269}、TNF_{ARI270}、TNF_{ARI271}、TNF_{ARI272}、TNF_{ARI273}、TNF_{ARI274}、TNF_{ARI275}、TNF_{ARI276}、TNF_{ARI277}、TNF_{ARI278}、TNF_{ARI279}、TNF_{ARI280}、TNF_{ARI281}、TNF_{ARI282}、TNF_{ARI283}、TNF_{ARI284}、TNF_{ARI285}、TNF_{ARI286}、TNF_{ARI287}、TNF_{ARI288}、TNF_{ARI289}、TNF_{ARI290}、TNF_{ARI291}、TNF_{ARI292}、TNF_{ARI293}、TNF_{ARI294}、TNF_{ARI295}、TNF_{ARI296}、TNF_{ARI297}、TNF_{ARI298}、TNF_{ARI299}、TNF_{ARI300}、TNF_{ARI301}、TNF_{ARI302}、TNF_{ARI303}、TNF_{ARI304}、TNF_{ARI305}、TNF_{ARI306}、TNF_{ARI307}、TNF_{ARI308}、TNF_{ARI309}、TNF_{ARI310}、TNF_{ARI311}、TNF_{ARI312}、TNF_{ARI313}、TNF_{ARI314}、TNF_{ARI315}、TNF_{ARI316}、TNF_{ARI317}、TNF_{ARI318}、TNF_{ARI319}、TNF_{ARI320}、TNF_{ARI321}、TNF_{ARI322}、TNF_{ARI323}、TNF_{ARI324}、TNF_{ARI325}、TNF_{ARI326}、TNF_{ARI327}、TNF_{ARI328}、TNF_{ARI329}、TNF_{ARI330}、TNF_{ARI331}、TNF_{ARI332}、TNF_{ARI333}、TNF_{ARI334}、TNF_{ARI335}、TNF_{ARI336}、TNF_{ARI337}、TNF_{ARI338}、TNF_{ARI339}、TNF_{ARI340}、TNF_{ARI341}、TNF_{ARI342}、TNF_{ARI343}、TNF_{ARI344}、TNF_{ARI345}、TNF_{ARI346}、TNF_{ARI347}、TNF_{ARI348}、TNF_{ARI349}、TNF_{ARI350}、TNF_{ARI351}、TNF_{ARI352}、TNF_{ARI353}、TNF_{ARI354}、TNF_{ARI355}、TNF_{ARI356}、TNF_{ARI357}、TNF_{ARI358}、TNF_{ARI359}、TNF_{ARI360}、TNF_{ARI361}、TNF_{ARI362}、TNF_{ARI363}、TNF_{ARI364}、TNF_{ARI365}、TNF_{ARI366}、TNF_{ARI367}、TNF_{ARI368}、TNF_{ARI369}、TNF_{ARI370}、TNF_{ARI371}、TNF_{ARI372}、TNF_{ARI373}、TNF_{ARI374}、TNF_{ARI375}、TNF_{ARI376}、TNF_{ARI377}、TNF_{ARI378}、TNF_{ARI379}、TNF_{ARI380}、TNF_{ARI381}、TNF_{ARI382}、TNF_{ARI383}、TNF_{ARI384}、TNF_{ARI385}、TNF_{ARI386}、TNF_{ARI387}、TNF_{ARI388}、TNF_{ARI389}、TNF_{ARI390}、TNF_{ARI391}、TNF_{ARI392}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